

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L1    | 2    | "20030016081"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:42 |
| L2    | 2    | "20030016081" and pilot adj<br>signal\$1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:42 |
| L3    | 1    | "20030085759" and pilot adj<br>signal\$1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:46 |
| L4    | 1    | "20030085759" and pilot adj<br>signal\$1 with (frequency<br>phase amplitude\$1)         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:48 |
| L5    | 2    | "6587513".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:51 |
| L6    | 0    | "6587513".pn. and pilot adj<br>signal\$1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:52 |
| L7    | 2    | "6587513".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/30<br>16:52 |
| L8    | 5    | ("4291277"   "5193224"  <br>"6072364"   "6304140"  <br>"6437644").PN.                   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2008/12/30<br>16:52 |
| L9    | 133  | (375/295.ccls. 375/296.ccls.<br>375/297.ccls.) and amplifier<br>and pilot adj signal\$1 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR               | ON      | 2008/12/30<br>16:54 |

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| L10 | 58  | 9 and pilot adj signal\$1 with (frequenc\$3 phase\$1 amplitude\$1)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>16:55 |
| L12 | 34  | 10 and @ad<="20030925"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>16:56 |
| L13 | 15  | 12 and (insert\$3 inject\$3 addition adding added) with pilot adj signal\$1  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>16:57 |
| L14 | 2   | pilot adj signal with predetermined adj (phase and frequency and amplitude)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:11 |
| L15 | 12  | (US-20030107435-\$ or US-20050264353-\$).did. or (US-5287069-\$ or US-5901346-\$ or US-5365187-\$ or US-7042283-\$ or US-6515544-\$ or US-4401853-\$ or US-7289575-\$ or US-6774716-\$ or US-6281935-\$ or US-6081156-\$).did. | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/30<br>17:15 |
| L16 | 66  | izumi.in. and amplifier adj circuit  | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/30<br>17:38 |
| L17 | 11  | 16 and "2007"  | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/30<br>17:38 |
| L18 | 222 | (330/151.ccls. 330/52.ccls.) and amplifier and pilot adj signal\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>17:44 |
| L19 | 150 | 18 and (insert\$3 inject\$3 added addition adding) with pilot adj signal\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>17:44 |
| L20 | 139 | 19 and pilot adj signal\$1 with (frequenc\$3 amplitude\$1 phase\$1)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>17:46 |
| L21 | 110 | 20 and @ad<="20030925"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:47 |
| L22 | 77  | 19 and pilot adj signal\$1 with (frequenc\$3 and amplitude\$1 and phase\$1)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>17:55 |

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| L23 | 62 | 22 and @ad<="20030925"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:55 |
| L24 | 1  | 23 and (constant adj<br>envelope TEM qpak FM MSK<br>BPSK QPSK GMSK ) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:58 |
| L25 | 0  | 23 and (constant adj<br>envelope TEM QPSK FM MSK<br>BPSK QPSK GMSK ) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:58 |
| L26 | 2  | 23 and (constant adj<br>envelope TEM QPSK FM MSK<br>BPSK QPSK GMSK ) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>17:58 |
| L27 | 26 | 23 and (plurality multiple)<br>with pilot adj signal\$1              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:01 |
| L28 | 5  | (330/143.ccls.) and amplifier<br>and pilot adj signal\$1             | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/30<br>18:31 |
| L29 | 5  | 28 and @ad<="20030925"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:32 |
| L30 | 3  | constant adj amplitude adj<br>wave adj synthesizing adj<br>amplifier | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:35 |
| L31 | 0  | 30 and pilot adj signal\$1   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:36 |

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| L32 | 0    | 30 and reference adj signal \$1   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:36 |
| L33 | 1064 | amplifying adj device.ti.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:38 |
| L34 | 63   | amplifying adj device.ti. and nippon.as.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:39 |
| L35 | 0    | 34 and (insert\$3 inject\$3 adding addition added) with pilot adj signal\$1                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:39 |
| L36 | 0    | amplifying adj circuit and (insert\$3 inject\$3 adding addition added) with pilot adj signal\$1 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:40 |
| L37 | 29   | amplifying adj circuit and (insert\$3 inject\$3 adding addition added) with pilot adj signal\$1 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:40 |
| L38 | 24   | 37 and @ad<="20030925"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:40 |
| L39 | 19   | 38 and pilot adj signal\$1 with (phase\$1 frequenc\$3 amplitude\$1)                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>18:41 |
| S1  | 2    | "20030016081"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/03<br>18:35 |

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| S2  | 2    | "6750706".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/03<br>18:36 |
| S3  | 2    | "20030085759"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/03<br>18:37 |
| S7  | 1057 | amplifying adj device.ti.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/08<br>10:49 |
| S8  | 1    | S7 and envelope adj<br>variation  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/08<br>10:50 |
| S9  | 2    | "20030085759"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/08<br>13:35 |
| S10 | 2    | "20030016081"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/08<br>22:12 |
| S11 | 4    | "2003038444"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/08<br>22:12 |
| S12 | 69   | constant adj envelope and<br>pilot adj (signal\$1 tone\$1)<br>with generat\$3 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>09:55 |
| S13 | 54   | S12 and (amplifier<br>amplifying) and phase and<br>amplitude                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>09:56 |

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| S14 | 21 | S13 and @ad<="20030925"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>09:57 |
| S15 | 50 | (US-20050227644-\$).did. or<br>(US-4591803-\$ or US-<br>5208549-\$ or US-5253270-\$<br>or US-5491727-\$ or US-<br>5694433-\$ or US-6043707-\$<br>or US-4311971-\$ or US-<br>5208414-\$ or US-5815531-\$<br>or US-6242975-\$ or US-<br>4248123-\$ or US-4328591-\$<br>or US-4399564-\$ or US-<br>4405835-\$ or US-4437380-\$<br>or US-4461025-\$ or US-<br>4513249-\$ or US-4555792-\$<br>or US-4567602-\$ or US-<br>4631491-\$ or US-4888799-\$<br>or US-5187809-\$ or US-<br>5377229-\$ or US-5436904-\$<br>or US-5490172-\$ or US-<br>5579347-\$).did. or (US-<br>5650751-\$ or US-5710521-\$<br>or US-5740207-\$ or US-<br>5745531-\$ or US-5778310-\$<br>or US-5796780-\$ or US-<br>5805147-\$ or US-5828703-\$<br>or US-6008698-\$ or US-<br>6137354-\$ or US-6169455-\$<br>or US-6176840-\$ or US-<br>6192225-\$ or US-6272479-\$<br>or US-6477208-\$ or US-<br>7440733-\$ or US-3927379-\$<br>or US-3818364-\$ or US-<br>4007428-\$ or US-4038604-\$<br>or US-4178557-\$ or US-<br>4244257-\$ or US-4254440-\$).<br>did. | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>13:04 |
| S16 | 0  | S15 and constant adj<br>envelope and pilot adj (signal<br>\$1 tone\$1) with generat\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>13:04 |
| S17 | 0  | S15 and constant adj<br>envelope and pilot adj (signal<br>\$1 tone\$1)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>13:04 |

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| S18 | 0  | S15 and envelope and pilot<br>adj (signal\$1 tone\$1) with<br>generat\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>13:05 |
| S19 | 0  | S15 and envelope and pilot<br>adj (signal\$1 tone\$1)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>13:05 |
| S20 | 0  | S15 and envelope and pilot<br>adj (signal\$1 tone\$1 symbol<br>\$1)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>13:05 |
| S21 | 2  | "6054894".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>14:43 |
| S22 | 41 | ("3777275"   "3896395"  <br>"3906401"   "3909742"  <br>"3927379"   "3978424"  <br>"4068186"   "4090147"  <br>"4178557"   "4319204"  <br>"4346354"   "4420723"  <br>"4433312"   "4490684"  <br>"4540957"   "4584541"  <br>"4656434"   "4835493"  <br>"5093636"   "5107520"  <br>"5148448"   "5249201"  <br>"5264807"   "5287069"  <br>"5329259"   "5365187"  <br>"5410280"   "5469127"  <br>"5568086"   "5568088"  <br>"5574967"   "5631604"  <br>"5638024"   "5659272"  <br>"5675288"   "5705959"  <br>"5732333"   "5748678"  <br>"5760646"   "5867065"  <br>"5892395").PN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/12/18<br>14:44 |
| S23 | 1  | "6750706".pn.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/12/18<br>16:46 |
| S24 | 1  | "20030095759"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/12/18<br>16:49 |
| S25 | 1  | "20030085759"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/12/18<br>16:50 |
| S26 | 2  | "6750706".pn.<br>"20030085759"  | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>16:51 |
| S27 | 4  | linc adj amplifier and pilot<br>adj signal\$1   | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>16:53 |

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| S28 | 4   | linc adj amplifier and pilot adj signal\$1                     | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>16:53 |
| S29 | 3   | S28 and @ad<="20040917"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>16:55 |
| S30 | 0   | 375/295.cds. and linc adj amplifier and pilot adj signal\$1    | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>16:56 |
| S31 | 2   | 375/295.cds. and amplifier with pilot adj signal\$1            | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>16:57 |
| S32 | 42  | 375/295.cds. and amplifier adj circuit\$1                      | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>16:58 |
| S33 | 46  | 375/295.cds. and amplifier adj circuit\$1                      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>16:58 |
| S34 | 0   | S33 and pilot adj signal\$1                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>16:58 |
| S35 | 0   | S15 and amplifier with pilot adj signal\$1                     | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>17:08 |
| S36 | 0   | S15 and amplifier and pilot adj signal\$1                      | US-PGPUB;<br>USPAT  | OR | ON | 2008/12/18<br>17:08 |
| S37 | 2   | S31 and pilot adj signal\$1                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>17:10 |
| S38 | 2   | S26 and pilot adj signal\$1                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>17:11 |
| S39 | 121 | linc adj (amplifier transmitter)                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/18<br>17:19 |
| S40 | 85  | S39 and @ad<="20040917"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>17:19 |
| S41 | 7   | S40 and pilot adj signal\$1                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>17:20 |
| S42 | 101 | (ikeda.in. izumi.in. matsuhsita.as.) and constant adj envelope | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>18:25 |
| S43 | 81  | S42 and amplifier  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>18:25 |



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| S44 | 0    | S40 and amplifier.cdm.                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:25 |
| S45 | 73   | S40 and amplifier.cdm.                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:25 |
| S46 | 8    | S45 and constant adj<br>envelope.cdm.                     | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:26 |
| S47 | 40   | S43 and amplifier.cdm.                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:33 |
| S48 | 5    | S47 and constant adj<br>envelope.cdm.                     | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:34 |
| S49 | 321  | amplifier adj circuit and<br>constant adj envelope        | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:53 |
| S50 | 103  | S49 and (pilot reference) adj<br>(signal\$1 tone\$1)      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:54 |
| S51 | 56   | S50 and @ad<="20040917"                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>18:54 |
| S52 | 0    | 330/124.cds. and (amplifier<br>amplification) adj circuit | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:03 |
| S53 | 0    | 330/124.cds. and (amplifier<br>amplification)             | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:03 |
| S54 | 0    | 330/124.R.cds. and<br>(amplifier amplification)           | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:04 |
| S55 | 1107 | 330/124R.cds. and (amplifier<br>amplification)            | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:04 |
| S56 | 21   | S55 and pilot adj signal                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:04 |
| S57 | 21   | S56 and @ad<="20040917"                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>19:04 |
| S58 | 2135 | constant adj envelope and<br>amplifier                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>20:21 |
| S59 | 132  | S58 and pilot adj (tone\$1<br>signal\$1)                  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>20:21 |
| S60 | 85   | S59 and @ad<="20040917"                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>20:22 |

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|-----|---------|--|------------------------------------|----|----|------------------|
| S61 | 24      | S60 and correct\$3 with (phase amplitude)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 20:22 |
| S62 | 76      | 330/124R.ccls. and constant adj envelope   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 20:26 |
| S63 | 1       | S62 and pilot adj (signal\$1 tone\$1)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 20:26 |
| S64 | 2       | "4,618,831".pn.  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:13 |
| S65 | 263019  | "6750706".pn. (9constant envelope)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:15 |
| S66 | 2406393 | "6750706".pn. (constant envelope)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:15 |
| S67 | 1       | "6750706".pn. and (constant envelope)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:15 |
| S68 | 0       | "20030085759" and (constant envelope)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:17 |
| S69 | 2       | "20030085759"  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:17 |
| S70 | 1       | "6515544".pn. and pilot adj signal\$1  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:25 |
| S71 | 6654    | pilot adj signal\$1 with (predetermined phase\$1 frequenc3 amplitude\$1)               | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:48 |
| S72 | 2034    | pilot adj signal\$1 and predetermined with (phase\$1 frequenc3 amplitude\$1)           | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:48 |
| S73 | 445     | pilot adj signal\$1 with predetermined with (phase\$1 frequenc3 amplitude\$1)          | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:49 |
| S74 | 0       | pilot adj signal\$1 with predetermined with (phase\$1 and frequenc3 and amplitude \$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:49 |
| S75 | 0       | pilot adj signal\$1 with predetermined with (phase\$1 and frequenc3 )                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:49 |
| S76 | 366     | pilot adj signal\$1 with predetermined with (phase \$1)                                | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:50 |
| S77 | 169     | S76 and amplifier  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/12/18 21:50 |

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| S78 | 1009 | pilot adj (signal\$1 tone\$1) with (amplitude and phase and frequency)                          | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>21:51 |
| S79 | 847  | S78 and @ad<="20040917"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>21:52 |
| S80 | 179  | S79 and (linc adj amplifier amplifier) and (correct\$3 compensat\$3) with (phase and amplitude) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>21:53 |
| S81 | 4    | S80 and constant adj envelope   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:04 |
| S82 | 4    | 330/52.cds. and constant adj envelope   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:05 |
| S83 | 2    | "6078628".pn.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:09 |
| S84 | 0    | amplifier with constanat adj envelope   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:15 |
| S85 | 902  | amplifier with constant adj envelope  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:15 |
| S86 | 847  | S79 and @ad<="20040917"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:16 |
| S87 | 594  | S85 and @ad<="20040917"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:16 |
| S88 | 147  | S87 and (pilot reference) adj signal\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>22:17 |
| S89 | 89   | S88 and different with (phase \$1 frequenc\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:09 |
| S90 | 24   | S88 and (pilot reference) with different with (phase\$1 frequenc\$3)                            | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:12 |
| S91 | 27   | amplifier and pilot adj generating  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:15 |
| S92 | 18   | S91 and @ad<="20040917"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:16 |
| S93 | 2    | "20030085759"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:28 |
| S94 | 0    | "20030085759" and pilot with (phase\$1 and amplitude)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/12/18<br>23:28 |

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| S95  | 1    | "20030085759" and pilot with (phase\$1 frequenc\$3 amplitude\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>23:29 |
| S96  | 1    | "20030085759" and pilot with (phase\$1 and frequenc\$3)          | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>23:32 |
| S97  | 1    | "6750706".pn. and pilot with (phase\$1 and frequenc\$3)          | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>23:34 |
| S98  | 451  | "330"/\$.ccls. and constant adj envelope                         | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>23:43 |
| S99  | 8    | S98 and pilot adj signal\$1                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | ON | 2008/12/18<br>23:44 |
| S100 | 2    | "4612581".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/19<br>12:10 |
| S101 | 210  | amplifier and (plurality multiple) adj pilot adj signal\$1       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:52 |
| S102 | 55   | S101 and @ad<="19881105"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:52 |
| S103 | 12   | S102 and (adding insert\$3) with pilot adj signal\$1             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:54 |
| S104 | 1789 | constant adj envelope with signal\$1                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:56 |
| S105 | 0    | S104 and pilot adj (generating inserting)                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:57 |

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| S106 | 16   | S104 and pilot with<br>(generating inserting)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:57 |
| S107 | 1    | S106 and<br>@ad<="19881105"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/26<br>20:57 |
| S108 | 3    | constant adj envelope\$ and<br>pilot adj ((signal\$1 tone\$1)<br>with (amplitude\$1 frequenc<br>\$3 phase\$1)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>08:52 |
| S109 | 3090 | (add\$3 insert\$3) with pilot<br>adj signal\$1 and (phase\$1<br>amplitude\$1 frequenc\$3)                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:16 |
| S110 | 48   | S109 and constant adj<br>envelope\$1   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:16 |
| S111 | 0    | S110 and<br>@ad<="19881105"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:17 |
| S112 | 668  | constant adj envelope\$1 adj<br>modulation   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:18 |
| S113 | 18   | S112 and<br>@ad<="19881105"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:18 |
| S114 | 2    | 330/143.cds. and constant<br>adj envelope with amplifier   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:27 |

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| S115 | 0 | S114 and (pilot adj signal tone) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/12/30<br>09:28 |
|------|---|----------------------------------|---|----|----|---------------------|

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